

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291587

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1919.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

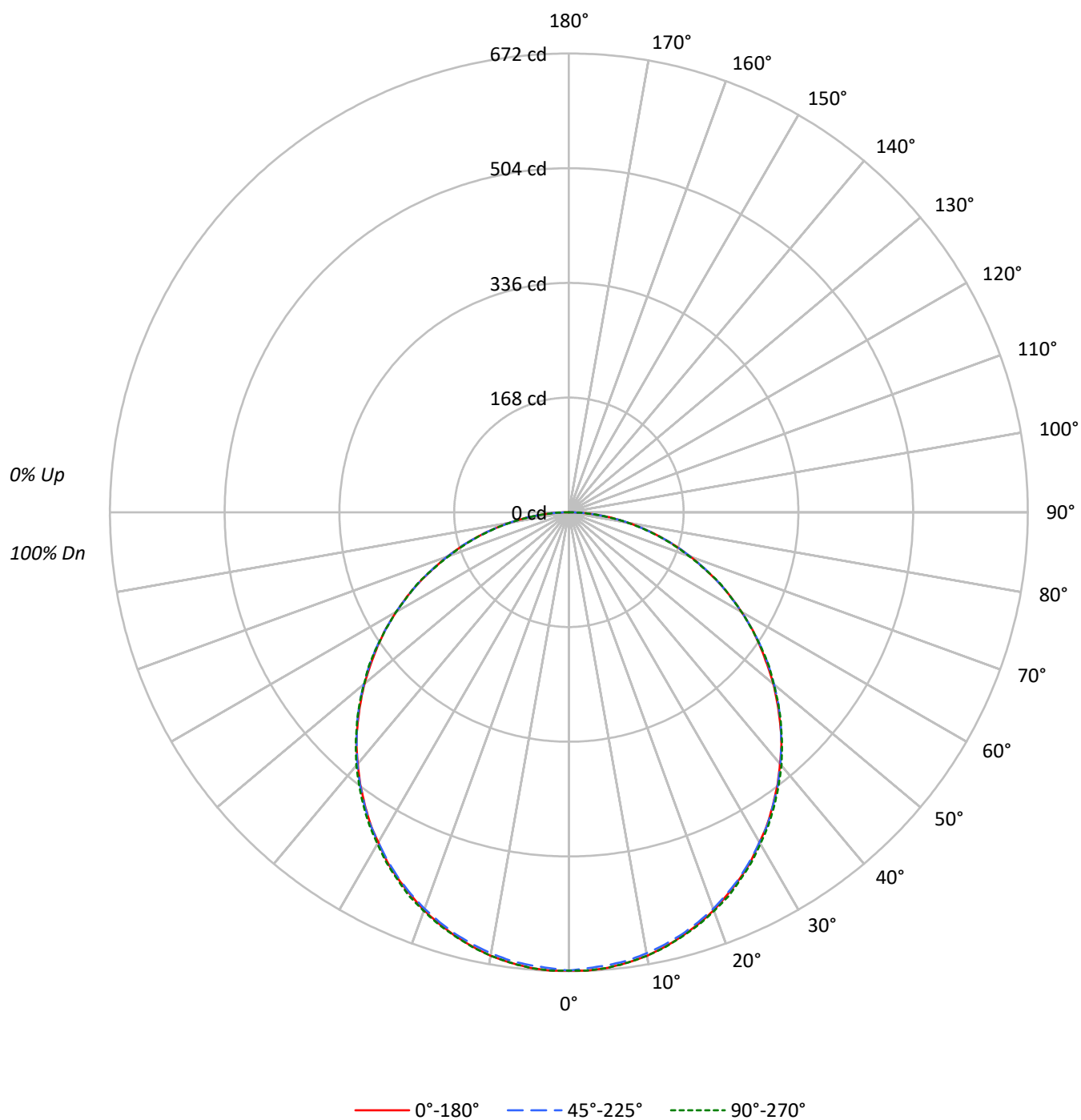
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1806	1806	1806
5°	1808	1798	1808
10°	1802	1792	1802
15°	1789	1782	1791
20°	1776	1769	1779
25°	1758	1754	1763
30°	1734	1734	1742
35°	1713	1715	1723
40°	1689	1692	1700
45°	1665	1669	1671
50°	1636	1641	1639
55°	1603	1612	1609
60°	1572	1572	1572
65°	1535	1535	1543
70°	1486	1486	1472
75°	1435	1429	1422
80°	1368	1359	1350
85°	1288	1269	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.3
10°-20°	181.1	9.4
20°-30°	272.9	14.2
30°-40°	327.1	17.0
40°-50°	338.2	17.6
50°-60°	306.7	16.0
60°-70°	238.3	12.4
70°-80°	145.6	7.6
80°-90°	45.6	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	517.5	27.0
0°-40°	844.6	44.0
0°-60°	1489.5	77.6
0°-90°	1919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	669	669	666	669	669	64
15°	642	642	640	643	643	181
25°	592	592	591	594	594	273
35°	521	522	522	524	524	326
45°	437	438	439	439	439	337
55°	342	343	344	344	343	306
65°	241	241	241	240	242	238
75°	138	138	137	137	137	146
85°	42	40	41	40	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.1	671.1	671.1	671.1	671.1
2.5°	671.7	671.1	668.0	671.1	671.7
5°	669.3	668.7	665.6	668.7	669.3
7.5°	665.0	665.0	661.9	665.0	665.0
10°	659.5	658.8	655.8	658.8	659.5
12.5°	651.5	651.5	648.4	651.5	652.1
15°	642.3	642.3	639.8	642.9	642.9
17.5°	631.9	632.5	629.4	633.1	633.1
20°	620.2	619.6	617.7	620.8	621.4
22.5°	606.1	606.7	604.9	608.5	609.2
25°	592.0	592.0	590.8	594.4	593.8
27.5°	576.6	576.6	574.8	577.9	578.5
30°	558.2	558.9	558.2	561.3	560.7
32.5°	541.1	541.7	541.7	542.9	543.5
35°	521.4	522.0	522.0	524.5	524.5
37.5°	501.8	501.8	502.4	504.3	504.3
40°	480.9	481.6	481.6	483.4	484.0
42.5°	460.7	459.5	460.1	461.9	461.9
45°	437.4	438.0	438.6	439.2	439.2
47.5°	414.1	415.3	415.9	416.5	415.9
50°	390.8	392.0	392.0	391.4	391.4
52.5°	365.6	368.7	368.1	368.1	369.3
55°	341.7	342.9	343.5	343.5	342.9
57.5°	317.8	319.0	317.8	318.4	317.2
60°	292.0	292.6	292.0	292.0	292.0
62.5°	266.9	267.5	266.2	266.2	266.2
65°	241.1	241.1	241.1	239.9	242.3
67.5°	214.1	215.3	215.3	215.9	213.5
70°	188.9	189.6	188.9	188.3	187.1
72.5°	163.8	164.4	165.0	162.6	162.0
75°	138.0	138.0	137.4	136.8	136.8
77.5°	112.9	112.9	112.9	111.6	111.6
80°	88.3	89.0	87.7	87.7	87.1
82.5°	64.4	64.4	64.4	63.8	62.6
85°	41.7	40.5	41.1	39.9	39.9
87.5°	19.0	19.0	19.0	17.8	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)